### From Out of "The Ashes" Rises

### ZXir @Libe Alibe! The Timex/Sinclair North American Heer Groups

Nemaletter

mer 94
n, Indiana
7

T/SNUG Information and Charmen Policy Declaration

Membership Lut - TreaSury Notes From The Charman's Disk - From the Editor ARTICLES

LarKen Disk Interface by Les Cotrell OLEMS DOS by Alline

GLUSTer Upgrade by Al-Free Relocation Machine Code TS-2008 by J PARTS Inventory by Richard Jolon Did Von Toy This Thy Doned Longon

Notice to SNUG Members STERROTTENES

Unclassified Ads The Best of the Pieter



ZXir OLive Alive! & Superext 1994

Balance 4. Marrier 2

#### T/SNUG Information ZXir OLive Alipe! Her or the life of TSPOTS

is the consistency of TENESC

solver appeal to the 175 own menty in a violence of few

to keep our Maracine.

our vendors and our remain service affire for

univers multiple for all

TimorSinchiz readilers, bulleting

whenever possible. A nother TSNUS god is to

Chairman Doubl 5 Tapper (STUC)

Vice-Chairmen

ZX-E1 PD Tage Library Drivedo, FL 30935

RMG Interprises

We coming you good to 14794 5 Quel Overe Co Clegen City, CR 97845 difficult it at your regular meet.

If you feel TENUS should

John Donaldson (CATUCI)

995 - GATOR

Treasurer Idnor's Luxen PO Library

You can keep Tohn to see ...

When you salk in the next time, yes unafter section collect conferences. Select delicant our groups Scient "TIMES" in

and Replace using your first state. Inc.

We have a 24 hour 585 and Cell 708 632-5558

GATOR's II SINCLAIR II

Or by hardcopy, mail to-

AUBURN IN 46706-3010

DON LAMBERT ZXz Ot no Allay: Nevelettes

Send in your articles by tape

Contributions

Article

# Input/Output

If you have a guestion, a problem or a solution why not send it to us. We will try to find en enswer end we will all share it. Mail to

( Addresses are on page 2) Richard A. Jelen of Onton CSI "thank you for

custon which I advected to one own "Purb" recovery (which in a process I developed week and to lot my more heterge and letter adjusted to Partici-I get year SCRT rantee from a program you did for

subswinter I had need to Infred on April SH 200A F "Regarding the operation cursit shaper for the the TEXOSE 15 VOC

owns, more the downing was originally made for the TS-1000 9 VDC adopter the wester of which is posetory. Just

ERRATA Ni-Cad Charger - ZQA1, Spring 94 The TS-2005 Down Adenter Center Din to

secative and should go to ground. Danie Rick, Baloner abourd, and stock you for

TS compares don't get much use seymone, i still argoy

ZXir OLive Alivel

4 Abed Ka

Other 4 years) will be bosse in the energy, and on weak-

Robert Gilbert of Withen MA "I would

tile me your stopp is streng the best of TS DOM: "Yanan'i I sees you name

sowedang at a paresisten or a mayozau? Are you a share-LarKet Public Domess Library Our shooks OCTO Red

Gene Ray of Miles GA. "For I were to think you

The two shacts stituted to the figure Newsletter, lot of

Sistema Gasa. Story about the two ATM shorts, story were handed as put before meeting to 1 should then

#### 22 2° AVE N ST MATHEU QUEBEC JOL 2HD CANADA

The blance Code Translator program for the T2-2568 can be convened to 22:51 longuage of it is in SASPC May be you one send for it on the conduction that

Robert Burnett of Th. Royen St. "Mose pur use on the last the your deep polilations of the search published to the search political from of the search fluid in the first of the latent year the search published and political search political to the search published and political search published and published and political search published and political search published and political search published and political search published and publish

Fidence to our community following from the power see what hope or going. We now replay our work algorithm of the power see we receive and approximation.

we receive such appreciation and excouragement such as power. Ashab

Robert Hartung of Hantertown IN "Think you and all the others for the work you are public with."

Red Gowen of Oragon Cay On. "Think you this the latest organizing the change in 1725/CD policy." In operation the requests. It is and concern to use what I have to compete such ascer accord. The less compension I have, to lessess it will be able to stay alone. But well be able to stay alone.

with most sources. The less is competition I have, the longest in well be able to stay above. Sides we at an all-time leve for RMG.<sup>22</sup> "I will account to affect as much PD software as I can: I do not do it so much for the puttle \$II apply both because I apply being this to describe in apply being this to describe in

puth §f anyl) but become I anyly being elde to decision a. I also have a lot of sharewars (ever 1389 Magaleptor on CTG evidable for PCs and used out quata a bet I has, an endancemp to merue that ALI vorfactor and carrest mere stay second as long as possible. I are contained referred conforms to Mechanical Affinity for CL, produces as well as to TORNEO and UTMARTS for empaciations and will contain to the action and the contained to the action of the TORNEO and UTMARTS are and will contain to the action and there is quit any of the TORNEO consensity over all I have to quit any or to find TORNEO accounts to the action of the TORNEO accounts to the ac-

of the TS community over all I have to quit my full tens companier business."

David Lassow of Towns A2: "The 2001 souther or dad, only when we may it is deed, by should come it. As a

Policy Declaration!

and groups it was the thought of all the challenges for days case that the 20th Qlike Alleel consistent would be in volume of at least A sense per year legistating as April with the Spring sense. Approve spring up for that year would be cartified to ever complete whether few containances incomed from the April of that year so Markot of the Silvening year. In that way 20th would know when to thus down as acroice without approve heige money.

The plan was not conveyed to our parasets reason was discovered when Abel indexed to us to the diffusion constitutions had in contentualizing to the diffusion constitutions had in contentualizing the diffusion constitutions had in contentualizing the diffusion of the diffusion of the diffusion processed, we now to get had to in track faint by rating our original servicion, solding our apaporars to addition ut the time them are book issues, and the contentual processes are the contentual to addition ut the time them are book issues, and

musing our original interferon, solling our supporture of the other part of the state of the other part of the state of the other part of the state of the other part of the o

ther Urens. Coreys and Vendors. To this end wanter office a goodnet or service, TONUS deliverant compets to that send, Pet 10 and to compets to that send, Pet 10 and to compete to that send, Pet 10 and to the P

e with this vandor and drive Ceile II all other available (UC) sepply those trace (and Swoger (and Swoger (and Swoger)

degrees F. \* Deep

TS-1800 showed down.

when running of our

were going from 12

# Treasury Notes Supporting T/SNUG

Robert 10 Benedi HATTER Come Cro-Dawron Carnet CATS Witne Kertin D Cause Giber General contratours Clarifier Villan None: Clen Yeshiolis Ended O Philip G

Legbert trescoppy

Course G

Deed Lesson David Lessh Sytu-Studi

Ging D Statement. 94
Finations Idlac 94
Edward Storm 94
Finations Idlac 94
Edward Storm 94
Finations Idlac 96
Finations Idlac 964
Finat

Park Hour. 764
Polliter Schliesen 784
Late McCreite 994
Late McCreite 994
Simulate 794
Almandar Swaizer 794

O Welcome to our Mess Members
As af Saly 22, 1994 when a balence of \$332.23
Alach Emiliate

Theorem.





SINCLAIR RAD

### FROM THE CHAIRMAN'S DISKE V I per and in the fast arise manner are to be

We are ampetal for the appropriates, and

(who owned 220) QLow) miskloked 230; QLaw Alaret

TANCOTOR DESCRIPTION

From the Editor the Changes are every and the remaided of CATLO.

And see the article by Les Cataoli on reports

building a Larlier dock of deep of property or POM

There is a magazine or ZXS1 1 per a couple of

THE COMPLITER JOLENAL

Nigir Publicos, who has many hastware development. Bob -- GADOR, Software Development -- in deep

TWINISHM or retarThe not May not be a period oil, as perfection as not die us mortale. Which provide see! I was assessmently a past

extend 47 years old Engineering Coops Captain for an und "No Sh. !" mod us and waked u.g. Not tables all Sunday subbandage, we see always m seed and looking for new material to potish. Se, you

the seaso tor averal draw about a couple of weeks

SPECTRUM made Of

course, the AERCO has

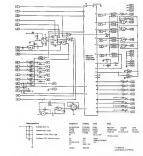
AFRCO I am worker on

enalistic for Separe

December 1984 Same

could read force

unrestable.



Suppor 1224

ZXe OLon Alive!

LARKEH SOM DESK INTERFACE

That took up went as the secute of Max free priving it.

I have a good cucries that I have saked below Is denoted by a 750X remissor or

drive power supply project

conductor to the TO-S configuration have swedned and are projective them in a IBM PC type power regular core

what its part number to do a risk of

alugations (shorts too). To put for they you have to show Instead of filling (wasting) space with my comments I

# LarKen Disk Interface Circuit

You self also needed a puritage with a lient made LEDOS Dock P.C. Sound for the TS-2065 from on. This home made ISP FC Sound to more While the evolution I had rate the Dark PC Board made no re-duck the SV troubles. I men on to Day First Admire a man of the extense This about

while to wedly the schemeste

controlled when week I do if I contint out on Not shown on the adventic on the +5

ZXiv OLive Africal

Please note that data lines DO show DS have two cleaner The second one is just to the right of the WD4770 outlies Otherwise the Times edge

feety substituted without possible problems for

I had also seen to the Change Area These Sanitals

Agricle For Our Newsletter to a goat war to do

Summer 1994

or, and he didn't was know that I had a problem lim order to continue to intreese ourselves we

## US COTTON I

into the Deck part I frame that it medial as med as the otherway of the ten of the PC Board to that the LarKen in such the following salesform: AERCO, Cityo, RAMEDS small

I retict that it holds the Duck foor open a little bit doer up I thought I had an OS-84 PC South

I did notice an ambeiou from the salesmate, you t

vessely it with a working cory. Do you know of any hardware hackes that I might confer with?

I swape you have the version 13 and not 139

Yn Nest Falmon e a merbe. Alled

course I moved love to find one that did work, (Clark Schemele is on the following pages: Send a LSASE.

PC Board Leyouts (Aridnos is on page 2) QLuMSi DOS (V4.30) The MDs command twell a lay name") will believe the MACI DIS conversed

CD Unit-Difference profits Not people with a QSE, GOLD CARD and and MAKE a mit-Different on the medium Ton present disk) at the second lines the following When you aspet DER torousing you have In when of FAST Disk and FAST doc

The CD I command with a sub-Office-Then if you were now to insect "CD WAST"

TAST 600

The CTI I' remembed Without a sub-Differ. The \$D 1 compand (with a 'sch-Differs positivo.

will comput you if you wish to NEMOVE the sub-

DOS commands per out to office the smaller COMMAND COM venion of the program

Bed the "ME" vomes of the CLeWis program as peopen require that your QL has the MAKE DIR. community and able to be to addition to the traditional To accommodate those who other do not have a

CRE, GOLD CARD, or FLERAM skip a version of

As of wed Constant 1993 the latest release worker in

OLUSTer

LUSTer has record, now will my feelid undergoes a long awaited

n Western New Mexico. on the Europe Namelo Reservation, as they like to

Undocumented

People with a QRL COLDICATO and FLRSDAM shap the second subcome the ability to second sub-Differlower with in how the sub-Diffectory on the medium.

It must donorst noom that every to get she all Maybe it was obvious to the people at MELACLE, or maybe 1 diden mult the documentation will range that I received with the PLESCAM (and, this is THE RY COLD CARD CHARACTERSON, IN RY ST LINE. selfs has the order way that I could figure out how to REMOVE a sub-Difference was with the WDSLeke command, and this I determined by asselsed Now it

I some notes. I exher had a type or a secondipleses Automore, and I realized that I might be able to delet effer The ED \ memorid utilize GOOS MTHE remmand and the untr defines the sub-Difference by direct input and can be used within CLAMSI by 50) for designating a specific string. For country, al you were to copy. SO \doe, QLabels would then set you if you wented to intifficet all the disthe Obviouse same centers must be employed by the

I will gate sensory charge in the finus as whomshos becomes available to me

### Upgrade

Sub-DiRectopes I ... -> 1

Tiphe mis. Difference will be "to play" even if you

ZX's: Of ave Alive!

Summer 1994

Greater "Crash" Protection:
This stry time Comprehe has being on mother the problem of says varieties at \$1,000.01 (20) and \$1,

A constitution for another two is CARCEL the program, but the Landaugh as most distinged place is in the form of Landaugh as most distinged place in sin the most constitution of the form that law CALCELTER is \$100 will now min "whether or set in fiftherms the law CALCELTER outputs TEX\_TEXT code." See every posterior points as below to 2 compare whether points as below to 2 compare whether points as below to 2 compare whether points as below to 2 compare with posterior points and the points of the constitution of the cons

914 RIQ VISTA CIR SW ALBUQUERQUE 19M 87103 USA Happy Tasifs, and Computing, to You...

Programs — 15-2665

bode law James F. Brenne

A deasemaking program count in optic brank

A for comprishing on the change I in the late 16-16

deasemaking law county late 16-16

deasemaking law county law county law side form

### Relocating Machine Code Programs \_\_\_\_\_ 18-2063

We can be seen as the control of the

2004 in on the content and different per inpute.

1004 in on the content and t

If you have nade the presions of both institutes of the control of

regions of the decision became with here to be changed or the costs of the costs of

FIGURE the following two addresses which the Law Rigard and High Piper in that order: Par a to see shoot become two share dweeping disease, you have a solicitate of the see that the seed of the seed

USE SOUND to reade a time only norms; only

There was the protection to souve sider yeagazer. One of these was taken yeagazer. One of these was taken yeagazer. These had lased to maintain of position line only notice they are sound of position line only notice that a maintain of position line only notice they are positive threatened by reaser. I noted that of them, but the only note the special or by work controlly was

marked by quarter to copy under skey per yet primer (French of the copy and the copy of the copy and the copy of the copy and the copy of the copy o

we will be a second of the sec

was in the Zeal code uses 5 choic 35000 to locate it is

After INTPRing the charges at 5 around 15 arou

understand enough to write my own muchline code, I

PARTS Inventory by Robert Africa

#### October 93, LPDATE! Magazinic. Set EEM(500,37) to values you getting, and then GOTO 6000 in that crosseds keeping. Of oursety you should always use GOTO 4000 any trace you SEREAK into the processes.

Make Your Scienters

Add or Change List
 Review List

Save to Cassette
 Make Bis Lans (after 4 above)
 Chasse Ossetth/Trice (after 4 above)

 Change Quantity/Price (after But Lints
 Copy All Bins
 ZXir OLive Alive) Copy a Rise
 Retwee to Merco
 Change Owence

1 By Bon 2 By Bon No.

3. By Item 4. By Item No M. Retarn to Missu 30 MEN of Dail 'noter on, at which are west to shart.'
10 Sept. A.
20 NEW & 12 Dail 'noter on, at solections are west to add
ar classes.'
21 MEN & 12 Dail 'noter on, at solections are west to add
ar classes.'
21 MEN & 12 MEN & 1

THE ALM IN THE PARTY OF THE PAR

The second secon

MICA TO DOMBIA TO ST THEM SO TO SHE SHADOWN D MICA SHE ST THE ST THE ST THE ST MICA SHE ST THE ST THE ST THE ST CO. THE ST THE ST THE ST

 20 MIN of 1,427 - 0000 M 1007 M 100 M 100

of the state of the control of the c

March 190 G T SMR

2, WHI C 1, HI HOWN'T 13 HO SIZE ST 25 THR SIZE ST 12 THR SIZE ST

- William Communication of the Communication of the

AND MARK AT TOUCHEST STORY WITH THE SHOREST TO THE SHOREST THE SHOREST THE SHOREST STORY WITH THE SHOREST THE SHOREST STORY WITH THE SHOREST STORY WITH SHOREST STORY

AND PRINT I PER ! AND PRINT I PER ! ONE IF DESTRUCT DER GI TO SELLE TO THE -- THE MALE -- NAME PERSON THE C TO CHILDREN TO SEE THE THE COLUMN THE SET -2-D Date

THE RESERVE 3.00 MIT 3.30 PERSON AT 3.30 PROPERTY STORY NE S. OSS. - Tor-Co-feel

1 107 100 1 107 100 1 107 100 PERSONAL PLANTING MICH. THE F DOTTO-

THE PARK LIMITED A LIMITARY PRINT NO. (1975). T. MILE OF DEE OO TO THE

MANAGE WE USE

F FUEL DEER SO TO SEED IN CO. IN. LANS. 100 STATE OF VALUE AND ALTER A ON MER LAUSE PRINT OF EASIER STEEL OF

ON THE SERVICE OF THE PARTY OF 100 0 0 7.3

F. 31 ITES TO GHE PRINT WHERE MAN PROOF FOR THIS THOSE

29 BOD , D. D. BOD , D. D. OCH ALL STREET, D. D. OC S. D. D. OMAG. 3,78 100 MIS. TO PROMI 1 FF HERE AT 17, BY THE HET FORG. FISSE (T) BY LC: TO HELLEN TO "1 PERM "DOWNE HERE DYN-TO THEN SO TO THE ONLY THEN HE IS THE

A HERE AT SAMPLETT MAY MAY THE TEXANS OF METER 2 BUT AND DO SO HER THAN HER COMMENT THE NO. 1507 TO 10 HE

SH NEW , 1.30 PRINT OF SHAPPING ALL CO

00 UN 100 11-05 THEN 60 TO 1908 DESCRIPTION THAN SO TO THOSE SETS OF THE SET ID III TO'L IN

DATE OF BUSINESS USE

#### CONTRACT TO SERVICE AND SECURITIONS OF Did You Try This?

by Donal Lauren

Davis, a Headline from the book "The Internal Guals To Timestimilar Horse

SHOUT ANY LENGTH

WY ENTE ABARY

edien -s THEN LET HE-M

Please refer to the accompanying living in order to see how Headline takes an addrawy enting of alphanameric characters one by one and priens the strong as INPUT at lane 70. Each lower as taken at fine 110, and the ROM codes are PERMed at last

character a row of make people at home 600 and 620. The medican number investigator program control 05-0000 Z00-81 T/5-0068" by Joe C. Septh. In accompanying screen employ But, for the nurbor is

niny around with different values for the SET YOU THEN LET yey-1

probabilities likelifer the value of S. at later 40 and 30. Jury represables that the two values have to add

```
To the attention of those who did not respond:

Son Fully
What : Husser
Field Hisser
Field STRILLER
FIELD HISSER
FIELD HIS
```

CAPTICAL AREA TIMEX SINCLAIR U G Teloma Park, MD

#### Greetings

Our records slow that you joined SNUG sowned years ago. Only two issues of the Newdotter was over maided. As the restanting person involved with this effort, I wan now proposed to dow the bedoes on this endower. For ventors reserves it sproved to be a bidger pob them most of those involved with its incopium was sake to bead to be a bidger pob them most of those involved with the incopium was sake to bead The Tresserve for surgease for the two secons of the Newdotte and these the making

By agreement with DUPDATE! respective, DIQLR newsletter and DT/SNUG you may shoose to have your remaining SNUG subscriptors extended in those fine publications, Dto donate to T/SNUG, or Dto receive a promisel refund check.

Please notify one of the addresses below — within 60 days — of your decision by checking a how \$2 so that we can show the bools on this helsted matter.

(Figure & Companyor

A KOMMUE

355 W REMYSORT RD
356 W REMYSORT RD
HOPPMAN ESTATES IL 60195-0108

AUGUSEN IN 46705-3070

#### If you were a member of SNUG,

please respond to the above.

usk of the above were needed to all there who were listed in the SPUID Membership List that I recover To-lake, 49 replay were recovered and the 77 processes that were market. Their choices were: UPDATE! 50.CR 5 5 TISHUID 144 December to TISHUID 14

Return to sender 5

15 Summer 1994